

## Technical data sheet

### Connection unit

Part no.: 50030836

MA 31 110

#### Contents

- Technical data
- Electrical connection
- Operation and display



For illustration purposes only



# Technical data

## Basic data

Series	MA 31
Suitable for interface	RS 232

## Electrical data

Protective circuit	Overvoltage protection
<b>Performance data</b>	
Supply voltage $U_B$	18 ... 36 V, DC

## Interface

Type	RS 232, RS 485
------	----------------

## Connection

Number of connections	1 Piece(s)
<b>Connection 1</b>	
Function	Connection to device Data interface Voltage supply
Type of connection	Terminal
No. of pins	25 -pin
<b>Connection 2</b>	
Function	Service interface
Type of connection	Sub-D
No. of pins	9 -pin

## Mechanical data

Design	Cubic
Dimension (W x H x L)	120 mm x 55 mm x 180 mm
Housing material	Metal
Metal housing	Aluminum
Net weight	640 g
Housing color	Red, RAL 3000

## Operation and display

Type of display	LED
Number of LEDs	6 Piece(s)

## Environmental data

Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-20 ... 60 °C
Relative humidity (non-condensing)	5 ... 90 %

## Certifications

Degree of protection	IP 65
Protection class	III

## Classification

Customs tariff number	84733080
ECLASS 5.1.4	27069190
ECLASS 8.0	27069190
ECLASS 9.0	27069190
ECLASS 10.0	27069190
ECLASS 11.0	27069090
ECLASS 12.0	27069090
ECLASS 13.0	27069090
ECLASS 14.0	27069090
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855
ETIM 8.0	EC001855
ETIM 9.0	EC001855

# Electrical connection

## Connection 1

Function	Connection to device Data interface Voltage supply
Type of connection	Terminal
Cable gland	PG9
No. of pins	25 -pin

## Terminal

## Assignment

1	RxD
2	TXD
3	CTS
4	RTS
5	Res.
6	GND
7	n.c.
8	n.c.
9	n.c.
10	n.c.

# Electrical connection

Terminal	Assignment
11	n.c.
12	n.c.
13	n.c.
14	n.c.
15	n.c.
16	n.c.
17	V_IN
18	V_IN
19	GNDIN
20	GNDIN
21	PE
22	n.c.
23	RS 485 A
24	RS 485 B
25	RS 485 GND
26	
27	

## Connection 2

Function	Service interface
Type of connection	Sub-D
Type	Male
No. of pins	9 -pin

Pin	Pin assignment
1	n.c.
2	RxD Service
3	TXD service
4	n.c.
5	RS 232 GND
6	n.c.
7	n.c.
8	n.c.
9	n.c.

# Operation and display

LED	Display	Meaning
1	Green, continuous light	BUS OK
	Green, flashing	Bus error
2	Green, flashing	Data transmission active
	Off	None.
3	Green, continuous light	Operational readiness
	Green, flashing	Device ok, initialization phase
4	Yellow, flashing	None.
	Yellow, continuous light	Device error
5	Red, continuous light	Trigger
	Off	None.
6	Green, flashing	Switching output/switching state
	Off	None.